EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|---------------------|---------|---------------------|
| L1 | 771 | finger\$print with environment \$4 | US-PGPUB; USPAT | OR | ON | 2009/07/08 14:03 |
| L2 | 9 | finger\$print with environment \$4 with effect | US-PGPUB; USPAT | OR | ON | 2009/07/08 14:03 |
| S1 | 1612 | authenticat\$ and robustness criteri\$ | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/08 16:00 |
| S2 | 8 | authenticat\$ and robust\$ adj criteri\$ | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/08 16:01 |
| S3 | 1 | authenticat\$ and robust\$ adj criteri\$ and @pd<="20040513" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/08 16:03 |
| S4 | 2438 | authenticat\$ same biometric and @pd<"20040513" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/08 16:07 |
| S5 | 680 | authenticat\$ same biometric and cryptograph\$ and @pd<"20040513" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/08 16:15 |
| S6 | 711 | authenticat\$3 same biometric and crypt\$8 and @pd<"20040513" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/09 07:22 |
| S7 | 270 | authenticat\$3 and biometric and crypt\$5 and @pd<"20040513" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/09 07:25 |
| S8 | 725 | (authentication or authenticated or authenticated) and (biometric) and (cryptographic and encryption) and @pd<"20040513" | US PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/09 07:29 |

| S9 | 0 | generating authentication data for authenticating a physical object.dm. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/09 07:45 |
|-----|-----|---|---|-----|----|---------------------|
| S10 | 0 | authenticating a physical object.clm. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/09 07:46 |
| S11 | 950 | physical object.dm. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/09 07:47 |
| S12 | 1 | "20070044139".pn. | DERWENT | ADJ | ON | 2008/07/09 11:47 |
| S13 | 1 | "5291560".pn. | DERWENT | ADJ | ON | 2008/07/09 15:08 |
| S14 | 1 | "5291560".pn. | US-PGPUB; USPAT | ADJ | ON | 2008/07/09 15:23 |
| S15 | 0 | "2002/029341".pn. | USPAT | ADJ | ON | 2008/07/09 15:54 |
| S16 | 1 | "0029341".pn. | USPAT | ADJ | ON | 2008/07/09 15:56 |
| S17 | 0 | @pd="20020307" and frykholm-nikas.in. | USPAT | ADJ | ON | 2008/07/09 16:06 |
| S18 | 11 | @pd="20020307" and frykholm-nikas.in. | US-PGPUB; USPAT | ADJ | ON | 2008/07/09 16:06 |
| S19 | 0 | wo1998/12670.pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | ADJ | ON | 2008/07/09 16:36 |
| S20 | 26 | borza-stephen-j.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | ADJ | ON | 2008/07/09 16:38 |
| S22 | 0 | WC/1998/012670.ptpn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | ADJ | ON | 2008/07/09 16:47 |
| S24 | 0 | WO/1998/012670.ptan. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | ADJ | ON | 2008/07/09 16:48 |
| S25 | 20 | borza-stephen\$.in. or freedman-gordan\$.in. and (biometric identification system).ti. | US-PGPUB; USPAT | ADJ | ON | 2008/07/10 09:32 |
| S26 | 20 | borza-stephen\$.in. or freedman-gordan\$.in. and (biometric identification system).ti. | US-PGPUB; USPAT | OR | ON | 2008/07/10 09:32 |

| S27 | 26 | borza-stephen\$.in. or | US-PGPUB; | OR | ON | 2008/07/10 |
|-------------|-------|--|---|-----|----|----------------------|
| JE / | 20 | freedman-gordan\$.in. and (biometric identification system).ti. | USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | | 5 | 09:32 |
| S28 | 20 | (tuyls-pim or denteneer- theodoru\$).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/14 09:21 |
| S29 | 21 | (tuyls-pim or denteneer- theodoru\$ or Linnartz-Johan). in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/14 |
| S 30 | 25 | (tuyls-pim or denteneer- theodoru\$ or Linnartz-Johan or verbitskiy-evgeny).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/14 |
| S31 | 11303 | koninklijke adj philips electronics.as. | US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/14 109:47 |
| S32 | 1 | S29 not S28 | US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/14 109:49 |
| S33 | 4 | S30 not S29 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/14 |
| S34 | 0 | koninklijke adj philips electronics.as. and authentication data generation method.ab. | US-PGPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/14 09:54 |
| S35 | 1 | koninklijke adj philips electronics.as. and authentication data.ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/14 09:55 |

| S36 | 0 | (authentication or authenticating or authenticating authenticated) adj (system or method or module or application or software or program or device or apparatus) and (robustness or robust) adj criterion and signal*no*moise*ratio and @PD<="20030521" | US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | <u>S</u> | 2008/07/14 11:08 |
|-----|-------|--|---|-----|----------|---------------------|
| S37 | 34976 | (authentication or authenticating or authenticating or authenticated) adj (system or method or module or splication or software or program or device or apparatus) or (robustness or robust) adj criterion and signal?no/moise?ratio and @PD<="20030521" | US-PGPUB; USPAT; USCOR; FPRS; EPC; JPC; DERWENT; IBM_TDB | ADJ | ON | 2008/07/14 11:09 |
| S38 | 1 | (authentication or authenticating or authenticated) adj (system or method or module or application or software or program or device or apparatus) and (robustness or robust) adj criterion and signal/to/moise/ratio | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/14 |
| S39 | 1 | (authentication or authenticating or authenticated) adj (system or method or module or application or software or program or device or apparatus) and (robustness or robust) and signal?to? noise?tatio | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DEHWENT; IBM_TDB | ADJ | ON | 2008/07/14 |
| S40 | 2827 | (authentication or authenticating or authenticated) adj (system or method or module or application or software or program or device or apparatus) and (robustness or robust) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/14 |
| S41 | 461 | (authentication or authenticating or authenticated) adj (system or method or module or application or software or program or device or apparatus) and (robustness or robust) and @pdc."20030221" | US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; JPO; IBM_TDB | ADJ | ON | 2008/07/14 |

| S42 | 81 | (authentication or authenticating or authenticated) adj (system or method or module or application or software or program or device or apparatus) and (robustness or robust) and (@pd<"20030221" and 3807,713/,726/.cds. | US PGPUB, USPAT, USOCR, FPRS, EPO, JPO, DERWENT, IBM_TDB | ADJ | OX | 2008/07/14 |
|-----|--------|--|---|-----|-----|---------------------|
| S43 | 1502 | (380/277).OCLS | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/14 11:34 |
| S46 | 1038 | (380/44).COLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/14 11:37 |
| S47 | 101157 | authenticat\$4 | US-PGPUB; USPAT | AND | ON | 2008/07/22 08:46 |
| S48 | 2438 | (authenticat\$4 NEAR (method OR system OR mode) SAME biometric\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/22 08:55 |
| S49 | 0 | (authenticat\$4 NEAR (method OR system OR mode) SAME biometric\$2) AND ("380".cds. OR "713".cds. OR "726".cds.) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/22 08:55 |
| S50 | 727 | (authenticat\$4 NEAR (method OR system OR mode) SAME biometric\$2) AND ("380".clas. OR "713".clas. OR "726". clas.) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/22 08:56 |
| S51 | 0 | (authenticat\$4 NEAR (method OR system OR mode) SAME biometric\$2) AND ("380".clas. OR "713".das. OR "726". clas.) AND (signal noise ration) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/22 09:05 |
| S52 | 0 | (authenticat\$4 NEAR (method OR system OR mode) SAME biometric\$2) AND ("380".clas. OR "713" das. OR "726". clas.) AND (signal\$1noise \$1ration) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/22 09:06 |
| S53 | 0 | (authenticat\$4 NEAR (method OR system OR mode) SAME biometric\$2) AND ("380".das. OR "713" das. OR "726". clas.) AND (signal\$1noise) | US-PGPUB; USPAT; USOCR; FPRS, EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/22 09:06 |

| S54 | 0 | (authenticat\$4 NEAR (method OR system OR mode) SAME biometric\$2) AND ("380". clas. OR "713".clas. OR "726". clas.) AND (help\$1data) | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/22 09:08 |
|-----|----|--|---|-----|----|---------------------|
| S55 | 18 | ((robust\$4) SAME biometric \$2) AND ("380".das. OR "713".das. OR "726".das.) AND (signal\$1 noise\$1 ratio) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | 08 | 2008/07/22 09:32 |
| S56 | 60 | authentica\$4 SAME (signal\$1 noise\$1 ratio) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/22 09:45 |
| S57 | 0 | authentica\$4 SAME (signal\$1 noise\$1 ratio)AND ("380", "713", "726").CLAS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/22 11:06 |
| S58 | 0 | ("2007/0044139").URPN. | USPAT | AND | ON | 2008/07/22 11:07 |
| S59 | 0 | ("2007/0044139").URPN. | USPAT | AND | ON | 2008/07/22 11:08 |
| S60 | 3 | (authentication system with measurement procedure) AND ("380", "713", "726"). clas. | USPAT | AND | ON | 2008/07/22 11:26 |
| S64 | 0 | (cryptograph\$2 WITH one \$1way\$1function).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/22 16:35 |
| S66 | 0 | (cryptograph\$3 SAME one \$1way\$1function).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/22 16:35 |
| S67 | 0 | (cryptograph\$3 AND one \$1way\$1function).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2008/07/22 16:35 |

| S68 | 0 | (cryptographic function AND one\$1way\$1function).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/22 16:36 |
|-----|------|---|---|-----|----|---------------------|
| S69 | 528 | (one way function).dm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/22 16:37 |
| S70 | 63 | (cryptograph\$2 WITH one way function).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/22 16:37 |
| S71 | 5468 | physical uncloneable function OR PUF or authentication protocol | US-PGPUB; USPAT | ADJ | ON | 2008/07/24 14:20 |
| S72 | 2151 | S71 AND ("380".clas. OR "713".das. OR "726".clas.) | US-PGPUB; USPAT | AND | ON | 2008/07/24 14:24 |
| S73 | 2151 | S72 and authenticat\$3 | US-PGPUB; USPAT | AND | ON | 2008/07/24 14:25 |
| S74 | 319 | S72 and robust\$4 | US-PGPUB; USPAT | AND | ON | 2008/07/24 14:26 |
| S75 | 0 | ("2007/0044139").URPN. | USPAT | AND | ON | 2008/07/28 13:30 |
| S76 | 612 | 726/2.ccls. | USPAT | AND | ON | 2008/07/28 13:38 |
| S77 | 5 | S76 and (generat\$4 near (authentication data)) | USPAT | ADJ | ON | 2008/07/28 14:08 |
| S78 | 0 | DAUGMAN-JOHN?.IN. | USPAT | ADJ | ON | 2008/07/28 16:05 |
| S79 | 2 | DAUGMAN.IN. | US-PGPUB | ADJ | ON | 2008/07/28 16:06 |
| S80 | 8 | DAUGMAN.IN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/28 16:09 |

| S81 | 140351 | ((physical (unclone OR uncloneable) function) OR PUF) OR (authenticatS3 protocol\$1) OR (generat\$3 authenticatIon data) OR (robust\$4 propert\$3) OR (biotech OR biotechnolog\$3) OR (noise\$1 contracting) OR (encryption algorithem\$1) OR (hash\$1 key or hash\$1 key value) OR (digital signature) OR (image analysis algorithm) | US-PGPUB, USPAT | ADJ | ŎS . | 2008/07/29 08:38 |
|-----|--------|--|--------------------|-----|------|---------------------|
| S82 | 140473 | ((physical (undone OR undoneable) function\$2 OR PUF) OR (authenticat\$3 protocol\$1) OR (generat\$3 protocol\$1) OR (generat\$3 NEAR (authenticat\$3 data)) OR (robust\$4 propert\$3) OR (foieteh OR biotechnolog\$3) OR (noies\$1 contract OR noies \$1 contract OR noies \$1 contracting) OR (encrypt \$3 algorithem) OR (hash \$1 key or hash\$1 key value) OR (digital signature) OR (image analy\$4 algorithm) | US-PGPUB; USPAT | ADJ | ON | 2008/07/29 08:50 |
| S83 | 24048 | (((physical (undone OR undoneable) function\$2) OR undoneable) function\$2 OR PUF) OR (unthenticat\$3 protocol\$1) OR ((generat\$3 protocol\$1) OR (generat\$3 protocol\$1) OR (robust\$4 propert\$3) OR (noise\$1 contraction\$1 OR (noise\$1 contraction\$1 OR (encrypt\$3 algorithem) OR (hash\$1 key or hash\$1 key value) OR (digital signature) OR (image analy\$4 algorithm) AND ((biotech OR biotechnol\$3) | US-PGPUB; USPAT | ADJ | ON | 2008/07/29 08:52 |
| S84 | 23747 | [((physical (unclone OR uncloneable) function\$2 OR PUF) OR (authenticat\$3 protocol\$1) OR (generat\$3 NEAR (authenticat\$3 Ata1) OR (noise\$1 contracting) OR (encrypt \$3 algorithen) OR (hash \$1 key or hash\$1key value) OR (digital signature) OR (image analy\$4 algorithm) AND (biotech OR biotechnolog \$3) AND (robust\$4 propert \$3) | US PGPUB; USPAT | ADJ | ON | 2008/07/29 08:54 |
| S85 | 0 | 726/2 726/9 726/20 369/24.01,29.01-29.02 711/100 713/168-170,172. CCLS | US-PGPUB; USPAT | AND | ON | 2008/07/29 08:59 |

| S86 | 7585 | (726/2 726/9 726/20 369/24.01,29.01-29.02 711/100 713/168-170,172). CCLS. | US-PGPUB; USPAT | AND | ON | 2008/07/29 08:59 |
|-----|------|---|--------------------|-----|----|---------------------|
| S87 | 4267 | (726/2 726/9 726/20 369/24 01,29 01-29 02 711/100 713/168-170,172). COLS. AND ((authenticat\$3 protoos\\$1) OR (generat\\$3 authentication data) OR (biotech OR biotechnolog\\$3) OR (noise\\$1contract OR noise \\$1contracting) OR (encryption algorithem\\$1) OR (hast\\$1key or hash\\$1key value) OR (digital signature) OR (image analysis algorithm)) | US-PGPUB; USPAT | AND | ON | 2008/07/29 09:02 |
| S88 | 3014 | (726/2 726/9 726/20 369/24.01,29.01-29.02 711/100 713/168-170,172). CCLS. AND ((authenticat\$3 protocol\$1) CR (generat\$3 authentication data) AND (biotech CR biotechnolog\$3). AND (noise\$1contracting) AND (encryption algorithem\$1) CR (hash\$1key or hash\$1key value) AND (digital signature) OR (image analysis algorithm) | US-PGPUB; USPAT | AND | Ŏ. | 2008/07/29 09:03 |
| S89 | O | (726/2 726/9 726/20 369/24.01,29.01-29.02 711/100 713/168-170,172). CCLS. AND ((authenticat\$3 protocol\$1) AND (generat\$3 authentication data) AND (biotech OR biotechnolog\$3 AND (noise\$1contracting) AND (encryption algorithem\$1) AND (hash\$1key or hash \$1key value) AND (digital signature) AND (image analysis algorithm)) | US-PGPUB; USPAT | AND | 8 | 2006/07/29 09:04 |

| S90 | 571 | (726/2 726/9 726/20 369/24.01,29.01-29.02 711/100 713/168-170,172). CCLS. AND ((authenticat\$3 protocos\$1) CR (generat\$3 authenticat\$\$ data) AND (biotech CP biotechnolog\$3) AND (noise\$1contract OR noise\$1contract OR noise\$1contracting) AND (encryption algorithem\$1) AND (hash\$1key or hash \$1key value) AND (digital signature) AND (image analysis algorithm)) | US PGPUB; USPAT | ADJ | ON | 2008/07/29 09:05 |
|-----|------|--|--------------------|-----|-----|---------------------|
| S91 | O | (726/2 726/9 726/20 369/24.01,29.01-29.02 711/100 713/168-170,172). CCLS. AND ((authenticat\$3 protocol\$1) AND (generat\$3 authenticat\$3 data) AND (biotech OR biotechnolog\$3) AND (noise\$1 contracting) AND (encryption algorithem\$1) AND (hash\$1 key value) AND (digital signature) AND (digital signature) AND (mage analysis algorithm)) | US-PGPUB; USPAT | ADJ | ON | 2008/07/29 09:05 |
| S92 | 571 | (726/2 726/9 726/20 369/24.01,29.01-29.02 711/100 713/168-170,172). CQLS. AND ((authenticat\$3 protocos\$1) OR (generat\$3 authenticat\$3 data) AND (biotech OR biotechnolog\$3) AND (noise\$1 NEAR4 contract \$3) AND (encryption algorithem\$1) AND (hash \$1key or hash\$1key value) AND (digital signature) AND (image analysis algorithm)) | US-PGPUB; USPAT | ADJ | ØN. | 2008/07/29 09:06 |
| 593 | 571 | (726/2 726/9 726/20 369/24.01,29.01.29.02 711/100 713/168-170,172). COLS. AND ((authenticat\$3 protocol\$1) OR (generat\$3 NEAFS (authenticat\$3 data)) AND (biotech OR bio\$1 technolog\$3) AND (noise\$1 NEAP4 contract\$3) AND (encryption NEAP2 algorithem \$1) AND (hash\$1key or hash \$1key value) AND (digital signature) AND (digital signature) AND (image analysis algorithm)) | US-PGPUB; USPAT | ADJ | ON. | 2008/07/29 09:21 |
| S94 | 1065 | 713/186.ccls. | US-PGPUB; USPAT | ADJ | ON | 2008/07/29 14:50 |

| S95 | 624 | 713/186.ccls. AND (biometric OR biotech\$6) And (authenticat\$3) | US-PGPUB; USPAT | ADJ | ON | 2008/07/29 14:59 |
|------|-----|--|--------------------------------|-------------|----|---------------------|
| S96 | 0 | ("2006/0047970").URPN. | USPAT | AND | ON | 2008/07/30 07:16 |
| S97 | 1 | "6401206".pn. | US-PGPUB; USPAT | AND | ON | 2008/07/30 11:49 |
| S99 | 0 | "10056982".ap. | US-PGPUB; USPAT | AND | ON | 2008/07/30 15:30 |
| S100 | 5 | "056982".ap. | US-PGPUB; USPAT | AN D | ON | 2008/07/30 15:31 |
| S101 | 0 | (tokens identification system for authorzation\$).ti. | US-PGPUB; USPAT | ADJ | ON | 2008/07/30 15:49 |
| S102 | 1 | "056982".apn. | US-PGPUB; USPAT | AND | ON | 2008/07/30 15:52 |
| S103 | 0 | "10056982".apn. | US-PGPUB; USPAT | AND | ON | 2008/07/30 15:53 |
| S104 | 0 | "10056982".ap. | US-PGPUB; USPAT | AND | ON | 2008/07/31 07:21 |
| S105 | 5 | "056982".ap. | US-PGPUB; USPAT | AND | ON | 2008/07/31 07:21 |
| S106 | 0 | hoffman-ned-\$.in. | US-PGPUB; USPAT | AN D | ON | 2008/07/31 07:25 |
| S107 | 152 | hoffman-n\$.in. | US-PGPUB; USPAT | AND | ON | 2008/07/31 07:25 |
| S108 | 42 | hoffman-n\$.in. and Tokenless | US-PGPUB; USPAT | AN D | ON | 2008/07/31 07:26 |
| S109 | 0 | "0105725".ар. | US-PGPUB; USPAT | AND | ON | 2008/07/31 07:36 |
| S110 | 5 | "105725".ap. | US-PGPUB; USPAT | AN D | ON | 2008/07/31 07:36 |
| S111 | 0 | "US-20030105725-A1.did" | US-PGPUB; USPAT | AND | ON | 2008/07/31 07:38 |
| S112 | 0 | "US-20030105725-A\$.did" | US-PGPUB; USPAT | AND | ON | 2008/07/31 07:38 |
| S113 | 0 | "US-20030105725-A\$.did" | US-PGPUB; USPAT; DERWENT | AND | ON | 2008/07/31 07:38 |
| S114 | 2 | US-20030105725-A\$.did. | US-PGPUB; USPAT; DERWENT | AND | ON | 2008/07/31 07:39 |
| S115 | 6 | "241374".ap. | US-PGPUB; USPAT; DERWENT | AND | ON | 2008/07/31 08:01 |
| S120 | 180 | 713/186.cds. AND @ad<"20030521" AND (sampl \$3 OR vector OR (data adj point)) AND biometric | US-PGPUB; USPAT | ADJ | ON | 2008/07/31 09:52 |
| S121 | 1 | "6697947".pn. | US-PGPUB; USPAT | ADJ | ON | 2008/07/31 10:57 |

| S122 | 1 | "6535622".pn. | US-PGPUB; USPAT | ADJ | ON | 2008/07/31 11:13 |
|------|-------|--|---------------------------|-----|-----|---------------------|
| S123 | 379 | 713/186.ccls. AND @ad<"20030521" AND (biometric or finger\$1 print) | US-PGPUB; USPAT | ADJ | ON | 2008/07/31 11:44 |
| S126 | 1 | "6411728".pn. | US-PGPUB; USPAT | ADJ | ON | 2008/07/31 11:49 |
| S127 | 1 | 713/186.ccls. AND @ad<"20030521" AND (finger \$1 print near4 select\$3) | US-PGPUB; USPAT | ADJ | ON | 2008/07/31 11:54 |
| S128 | 1 | "6314196".pn. | US-PGPUB; USPAT | ADJ | ON | 2008/07/31 16:05 |
| S132 | 6 | "557628".ap. | US-PGPUB; USPAT | ADJ | ON | 2008/08/01 08:28 |
| S133 | 1 | "6314196".pn. | US-PGPUB; USPAT | ADJ | ON | 2008/08/04 07:20 |
| S134 | 319 | (382/125). OOLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/08/05 15:39 |
| S135 | 301 | 382/125.ccls. AND fingerprint | US-PGPUB; USPAT | AND | ON | 2008/08/05 15:41 |
| S136 | 15 | 382/125.ccls. AND fingerprint and (noise near signal) | US-PGPUB; USPAT | AND | ON | 2008/08/05 15:42 |
| S137 | 1 | "5717786".pn. | US-PGPUB; USPAT | AND | ON | 2008/08/06 12:59 |
| S138 | 35141 | (enhanc\$3 OR refin\$3 OR improv\$3) WITH ((signal NEAR3 noise NEAR3 ratio) OR (signal NEAR quality)) | US-PGPUB; USPAT | ADJ | ON | 2008/08/06 14:06 |
| S139 | 110 | (enhanc\$3 OR refin\$3 OR improv\$3) WITH ((signal NEAR3 noise NEAR3 ratio) OR (signal NEAR quality)) SAME (subset) | US-PGPUB; USPAT | ADJ | ON | 2008/08/06 14:07 |
| S140 | 68 | S139 AND @AD< "20030521" | US-PGPUB; USPAT | ADJ | ON | 2008/08/06 14:51 |
| S141 | 46 | (enhanc\$3 OR refin\$3 OR improv\$3) WITH ((signal NEAR3 noise NEAR3 ratio) OR (signal NEAR quality)) WITH (transfer function) | US-PGPUB; USPAT | ADJ | ON | 2008/08/06 15:56 |
| S142 | 2633 | (enhanc\$3 OR refin\$3 OR improv\$3) WITH ((signal NEAR3 noise NEAR3 ratio) OR (signal NEAR quality)) WITH (filter) | US-PGPUB; USPAT | ADJ | ON | 2008/08/06 16:12 |
| S143 | 1830 | S142 AND @AD< "20030521" | US-PGPUB; USPAT | AND | ON | 2008/08/06 16:14 |
| S144 | 3 | S143 AND (finger adj print) | US-PGPUB; USPAT | AND | ON | 2008/08/06 16:46 |

| S145 | 2634 | (enhanc\$3 OR refin\$3 OR improv\$3) WITH ((signal NEAR3 noise NEAR3 ratio) OR (signal NEAR quality)) WITH (filter) | US-PGPUB; USPAT | ADJ | ON | 2008/08/07 08:12 |
|------|------|---|--------------------|-----|----|---------------------|
| S146 | 1830 | S145 AND @AD<"20030521" | US-PGPUB; USPAT | AND | ON | 2008/08/07 08:12 |
| S147 | 2084 | (enhanc\$3 OR refin\$3 OR improv\$3) W1TH ((signal NEAR3 noise NEAR3 ratio) OR (signal NEAR quality) OR (SNR) W1TH (filter OR transformation) AND @AD<*20030521* | US PGPUB; USPAT | AND | ON | 2008/08/07 08:21 |
| S148 | 424 | S147 AND (finger\$1 print OR face OR palm OR iris OR biotech) | US-PGPUB; USPAT | AND | ON | 2008/08/07 08:25 |
| S149 | 18 | (enhanc\$3 OR refin\$3 OR improv\$3) WITH ((signal NEAR noise NEAR) ratio) OR (signal NEAR Quality) OR SVR) WITH (filter OR SVR) WITH (filter OR palm OR iris OR biotech) AND (page 120030521" | US-PGPUB; USPAT | AND | ON | 2008/08/07 08:28 |
| S152 | 67 | (enhanc\$3 OR refin\$3 OR improv\$3) W1TH ((signal NEAR\$) noise NEAR\$ ratio) OR (signal NEAR quality OR quality) OR SVD W1TH (filter OR transformation) SAME ((finger\$1 print OR face OR palm OR rise OR biotech) AND @AD~20030521** | US-PGPUB; USPAT | AND | ON | 2008/08/07 08:40 |
| S153 | 0 | L11-L8 | US-PGPUB; USPAT | AND | ON | 2008/08/07 08:43 |
| S154 | 49 | S152 not S149 | US-PGPUB; USPAT | AND | ON | 2008/08/07 08:43 |
| S155 | 1 | "5799098".pn. | US-PGPUB; USPAT | AND | ON | 2008/08/07 08:56 |
| S157 | 4 | "382"/\$.cds. AND (finger\$ print) with (linear near (transfermation) OR filter) | US-PGPUB; USPAT | ADJ | ON | 2008/08/07 10:11 |
| S158 | 0 | "382"/\$.cds. AND (finger\$ print) SAME (linear near4 function) SAME (transfermation OR filter) | US-PGPUB; USPAT | ADJ | ON | 2008/08/07 10:13 |
| S159 | 0 | "382"/\$.cds. AND (finger\$ print) SAME (linear near4 function) AND (transfermation OR filter) | US-PGPUB; USPAT | ADJ | ON | 2008/08/07 10:14 |

| S160 | 5 | "382"/\$.cds. AND (finger\$ print) AND (linear near4 function) AND (transfermation OR filter) | US-PGPUB; USPAT | ADJ | ON | 2008/08/07 10:14 |
|------|--------|--|---|-----|-----|---------------------|
| S162 | 1 | "6035398".pn. | US-PGPUB; USPAT | AND | ON | 2008/08/07 10:20 |
| S163 | 1 | "6233348".pn. | US-PGPUB; USPAT | AND | ON | 2008/08/07 11:00 |
| S164 | 1 | "5799098".pn. | US-PGPUB; USPAT | AND | ON | 2008/08/07 11:09 |
| S165 | 1 | ("4947442").PN. | US-PGPUB; USPAT; USOCR | AND | ON | 2008/08/07 11:10 |
| S166 | 20 | ("5799098").URPN. | USPAT | AND | ON | 2008/08/07 11:10 |
| S167 | 1 | "6466686".pn. | USPAT | AND | ON | 2008/08/07 11:26 |
| S170 | 2 | "557628".apn. | US-PGPUB; USPAT | AND | ON | 2008/08/07 12:38 |
| S171 | 13 | linear transformation with low pass | US-PGPUB; USPAT | ADJ | ON | 2008/08/07 16:48 |
| S172 | 5 | linear transformation with noise reduction | US-PGPUB; USPAT | ADJ | ON | 2008/08/07 16:52 |
| S173 | 0 | delta?contracting?function | USPAT | OR | OFF | 2009/01/23 14:20 |
| S174 | 0 | delta near2 contracting near2 function | USPAT | OR | OFF | 2009/01/23 14:21 |
| S175 | 0 | delta\$1contracting | USPAT | OR | OFF | 2009/01/23 14:22 |
| S176 | 395169 | delta | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/23 14:22 |
| S177 | О | delta?contracting?function | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/23 14:27 |
| S178 | 0 | delta?contracting?function | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/23 14:27 |
| S179 | 11 | delta near2 contracting near2 function | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/23 14:27 |

| S180 | 214 | fisher\$1 discriminant | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/23 14:42 |
|------|---------|--|--|-----|----|---------------------|
| S181 | 1 | fisher\$1 discriminant transformation | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/23 14:42 |
| S182 | 0 | (insert near3 criteria near4 authenticaton data) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/27 09:42 |
| S183 | 1075655 | (insert or (embed or embeded) near3 criteria near4 authenticaton data) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/27 09:43 |
| S184 | 0 | ((insert or (embed or embeded)) near3 criteria near4 authenticaton data) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/27 09:44 |
| S185 | 0 | ((insert or (embed or embedded)) near3 criteria near4 authenticaton data) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/27 09:44 |
| S186 | 0 | ((insert or embed\$5) near3 (criteria or help\$2 data) near4 authenticaton data) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/27 09:45 |
| S187 | 2 | "7093131".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/27 13:00 |
| S188 | 2 | "6314196".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/27 16:52 |
| S189 | 0 | (convert or transfer) near2 (banary near2 code) near5 (positive near negative) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/27 17:12 |
| S190 | 35 | (convert or transfer) near5 binary near5 positive near5 negative | US-PGPUB; US-PAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/27 17:13 |

| S191 | 2 | "6314196".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/01/28 16:21 |
|------|-----|---|---|-----|----|---------------------|
| S192 | 1 | "20070044139" | US-PGPUB; USPAT | OR | ON | 2009/07/06 17:06 |
| S193 | 278 | "5291560" | US-PGPUB; USPAT | OR | ON | 2009/07/06 17:39 |
| S194 | 1 | "6314196".pn. | US-PGPUB; USPAT | OR | ON | 2009/07/07 14:16 |
| S195 | 568 | (hash\$4 with finger\$1print) same (stor\$4 or sav\$4) | US-PGPUB; USPAT | OR | ON | 2009/07/07 15:42 |
| S196 | 375 | (hash\$4 with finger\$1print) same (stor\$4 or sav\$4) same (rule or guidline or criteria or (help\$2 data)) | US-PGPUB; USPAT | OR | ON | 2009/07/07 15:44 |
| S197 | 242 | (hash\$4 with (finger\$1print or bio\$6)) same (stor\$4 or sav \$4) same (rule or guidline or criteria or (help\$2 data)) and @ad<"20040513" | US-PGPUB; USPAT | OR | ON | 2009/07/07 15:45 |
| S198 | 169 | (hash\$4 with (finger\$1print or bio\$6)) same (stor\$4 or sav \$4) same (rule or guidline or criteria or (help\$2 data)) and (not BIO\$) and @ad<"20040513" | US-PGPUB; USPAT | OR | ON | 2009/07/07 15:53 |
| S199 | 73 | S197 not S198 | US-PGPUB; USPAT | OR | ON | 2009/07/07 15:53 |
| S200 | 169 | S197 not S199 | US-PGPUB; USPAT | OR | ON | 2009/07/07 15:55 |

7/8/2009 2:15:14 PM

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